EML 301

11-9-78

Y

SAMPLE RATE CLOCK

.12Hz - 120Hz SQR MODE

.24Hz - 120Hz PULSE MODE

EXT TRIG INPUT

SCHMITT TRIGGER

GATE TO E ENV

ONE SHOT 1ms

TRIGGER OUTPUT

KEYBOARD

16 SECTIONS

50K POTS

TUNING

JUMP TO G FOR SAMPLE & HOLD

JUMP TO E FOR TRACE & HOLD

OR USE A SWITCH FOR BOTH.

SIGNAL OUTPUT

BUFFER

FET SWITCH

SAMPLER

SAMPLED OUTPUT

EXT VIBRATO

VIBRATO AMOUNT

SIGNAL GENERATOR

JUMPER

HP K-H

HP K-J

EXT INPUT

TUNE CONTROL

LINEARITY ADJ.

INPUT BUFFER

INVERTER

INTEGRATOR

TRI OUTPUT

±5V SCHMITT TRIG.

LEVEL SHIFTER

SAW

VARIABLE WAVEFORM CONTROL

BUFFER

CHOPPER FETS

SWITCHED PHASE INVERTER

OCTAVE SWITCH

±1 OCT ADJ.

SQR. BUF.

SQUARE OUTPUT

GATE FROM S.T.

GATE IN

FILTER AND SCHMITT TRIGGER FOR CLEANING GATE SIGNAL

UP TRIP 3.5V

DOWN TRIP 0.8V

SET ON LEADING EDGE OF GATE

RESET

ATTACK

DECAY

"CLEAN" GATE OUT

DELAYED

EMITTER FOLLOWER

ENV. OUT

NOTE: OUTPUT "D" IS NOT SHORT CIRCUIT PROOF (AND 470)

EXT ENV INPUT

EXT SIGNAL INPUT

VCO OUT

NON-INVERTING INPUTS

INVERTING INPUTS

OUTPUT OFFSET ADJ.

CA3046

CONTROL INPUT 10K

IN 4148

CONTROL NULL ADJ.

OUTPUT

OUT